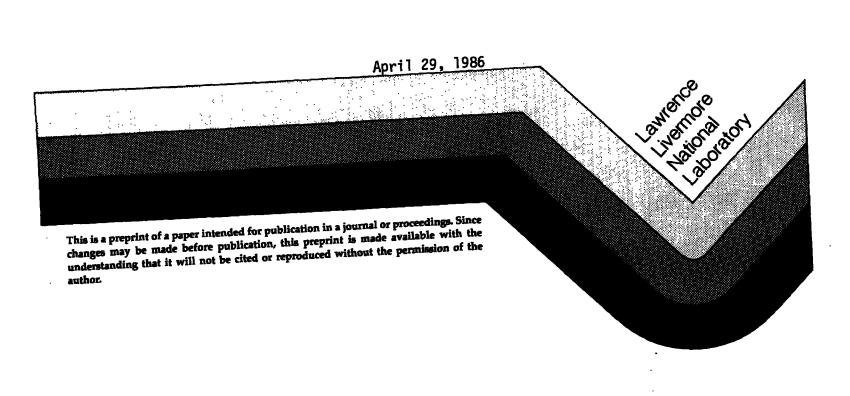
RCULATION COPY UBJECT TO RECALL IN TWO WEEKS

THE Ar-Be (ARGON-BERYLLIUM) SYSTEM

H. Okamoto L. E. Tanner

This paper was prepared for submittal to Bulletin of Alloy Phase Diagrams



DISCLAIMER

This document was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement recommendation, or favoring of the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes.

The Ar-Be (Argon-Beryllium) System 39.948 9.01218

By H. Okamoto and L.E. Tanner Lawrence Livermore National Laboratory

According to the band calculation using an empirical pseudo-potential, ArBe having a NaCl structure is unstable which is unlike other Ar compounds with the group II elements (Mg, Ca, Zr, Cd) [79Alt].

Cited Reference

79Alt: A.M. Altshuler, Yu.Kh. Vekilov, and G.R. Umarov, "The Stability of the Inert Gas According Compounds", Phys. Lett.. 73A(3), 216-217 (1979). (Equi Diagram; Theory)

Acknowledgments

Ar Re evaluation contributed by L.E. Tanner, L-217, Lawrence Livermore National Laboratory, P.O. Box 808, Livermore, CA 94550 and H. Okamoto, 877G, Lawrence Berkeley Laboratory, Berkeley, CA 94720. This work was supported by the U.S. Department of Energy under contract no. W-7405-Eng-48 and American Society for Metals. Literature searched through 1985. L.E. Tanner and H. Okamoto are ASM/NBS Data Program Category Editors for binary beryllium alloys.